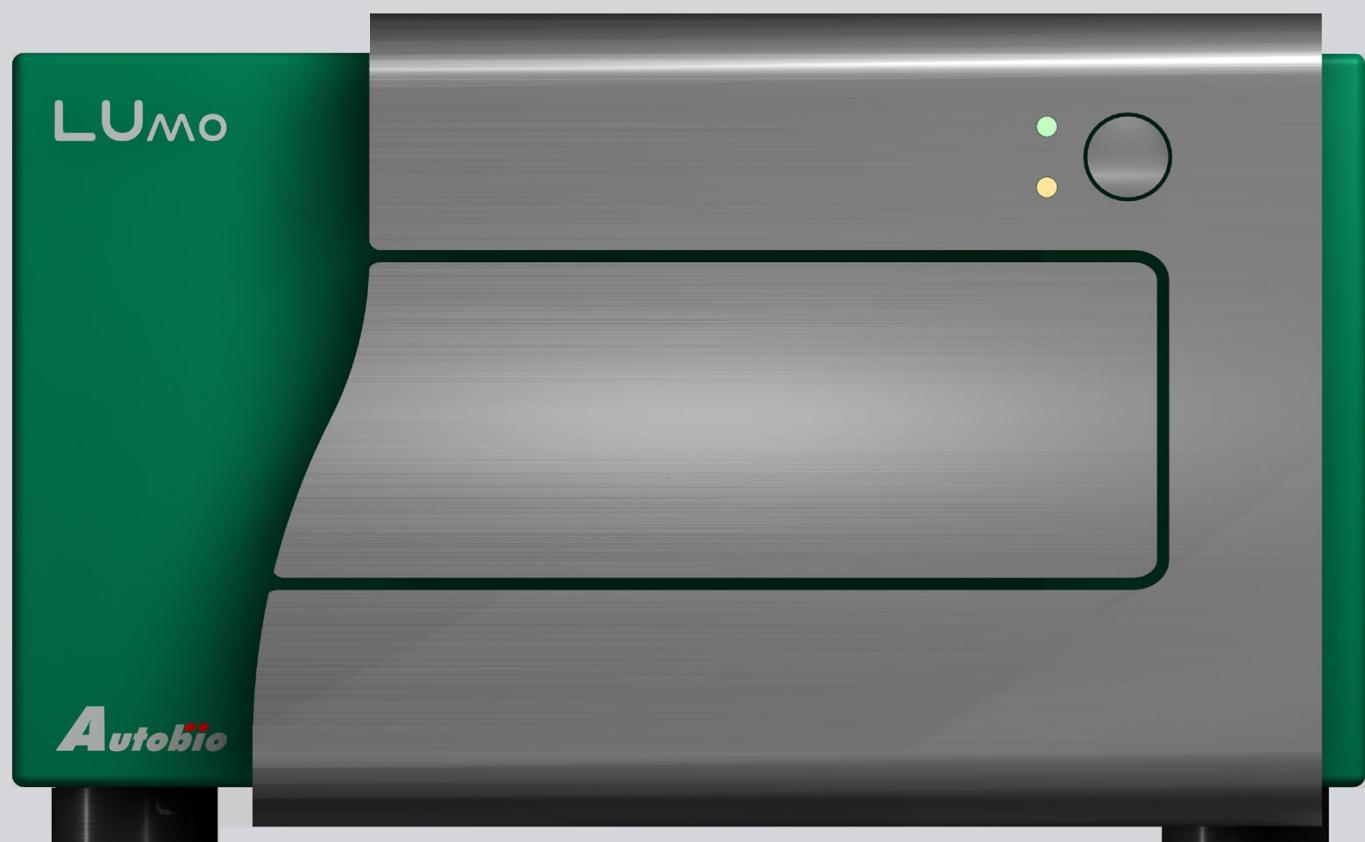


LUMO

autobio microplate luminometer



www.autobio-labtec.com

autobio labtec an autobio group company

Autobio



Autobio Microplate Luminometer

Autobio LUMO is a state of the art microplate luminometer, designed to meet the demanding requirements of today's microplate based, glow luminescence applications.

Combining the expertise of our team of instrumentation specialists in Europe and the diagnostics background of Autobio in China, LUMO is the result of a development making best use of synergies across the globe and our commitment to quality.

Special Features

High sensitivity and wide dynamic range

Combining these two key requirements, LUMO gives you the possibility to run a wide variety of routine and scientific applications

Very low crosstalk

LUMO incorporates a sophisticated, adaptive positioning system, keeping the detector as close as possible above the sample to eliminate instrument related crosstalk and make optimum use of LUMO's high sensitivity and dynamic.

Speed

It takes typically less than 40 seconds to read a 96-well plate at 0.1 sec integration time.

Accommodates 96- and 48-well microplates

The plate carrier system is designed to accommodate all kinds of 96- and 48-well microplates without an additional adaptor required.

Autosoft - control and evaluation software

LUMO comes with Autosoft, Autobio's state of the art, Windows® based software, designed to control our full range of instruments. The flexible function levels of Autosoft allow test programming and data evaluation protocols covering the range from routine to complex scientific research.

Autosoft provides the following features:

User Administration with 2 different authorization levels.

Quantitative evaluation: Curve fits (linear regression, point to point, cubic spline and 4 parameter fit) with linear and logarithmic axis scaling and extrapolation options.

Qualitative analysis: based on up to 2 different cut off values can be used to assign samples to up to 5 different groups.

Assay validation to verify correct assay performance.

Data Storage in database or text file.

Multi-test evaluation for up to 12 different assays on one plate.

Internal Quality Control: LQ- and instant method are available.

QC Data can be added automatically or manually.

Matrix and assay list print out on multiple paper formats.

Robot integration

The accurate front loading mechanism which releases the plate in load position, it's compact design and it's reliability makes LUMO the ideal choice for integration into robotic systems.

Main applications

Thyroid Hormones | Tumor Markers | Reproductive Endocrinology | Diabetes | Infectious Disease | Cardiac Markers | Adrenal/Pituitary | Bone Metabolism | TDM | Anemia | LIA Other Analytes | Reactive oxygen species (ROS) | Aequorin Ca⁺⁺ assays | Ion channels / GPCR's | Two-Hybrid / Protein – protein interaction | Apoptosis / Cell viability / Cell cytotoxicity | ATP determination |

Autobio Group

... offers more than 100 in vitro diagnostic products including ELISA, POCT (Point of Care Test), Microbiology and CLIA (Chemiluminescence). As GMP, ISO 9001 and 13485 certified manufacturer, Autobio also offers OEM diagnostics production. For details please visit www.autobio.com.cn

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Specifications

Detection system: Photomultiplier module

Detection mode: Glow luminescence

Spectral sensitivity Range: 300 - 650nm

Dynamic / Indication Range: 0 - 1.600.000.000 RLU

Measurement unit: RLU (Relative Light Units)

Sensitivity at 545nm: 1 x 10⁻²³ mole HRP

Repeatability: < 2%

Crosstalk: < 1 x 10⁻⁷ (typical)

Measurement time: typically <40 seconds at 0.1 sec. integration time for a 96-well plate

Integration time: 0.1 sec to 10 sec in increments of 0.1sec

Plate types: 96-well and 48-well (4x12) microplates, max. height 15.2 mm

Shaking: 3 modes



Dimensions:

33.5cm x 20.5cm x 47.0 cm (w x h x l)

Weight: 13.0kg net

Power supply: external voltage range: 90-130V and 180-250V, 47 - 63Hz (autosensing)

Data connections:

Serial Interface RS232 (9-pin),
= USB 2.0 (optional)

Environmental conditions:

Operating: temperature: 10°C to 40°C
humidity: 15%-75% RH non-condens.

Storage: temperature: -10°C to 50°C
humidity: <95% RH non-condensing

Scope of supply: Instrument, power supply, power cable, dustcover, serial cable, USB cable (optional), Autobio Control and Evaluation Software (Windows®) and user manual on CD